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Abstract of the Disclosure

improved water purification system including a [0044] An high-efficiency reverse osmosis (HERO) system and a base dosing system for rapidly raising the pH of wastewater treated in the The invention includes an ion exchange unit from removing positive and negative ions the wastewater. A high-efficiency reverse osmosis (HERO) system is provided downstream of the ion exchange unit for further removing ions from the wastewater. A base dosing system is provided between the ion exchange unit and the HERO system for dosing a base into and rapidly raising the pH of the wastewater as the wastewater flows from the ion exchange unit into the HERO system.